**Lab 6 [Media Access Control Protocols and Wireless Network Basics]**

**Outline:**

1. Change the hardware module of a device in Packet Tracer.
2. Configure a simple wireless network using wireless access point.
3. Analyse the working and flow of various Media Access Control Protocols.

**Tasks:**

1. You have to configure a simple wireless network using a Wireless Access Point, switch and End Devices (PCs, Laptops, Smart Phones etc.). Take a switch and Wireless Access device and connect them. Assign **SSID** and enable password security in wireless access point (WAP) device.

Now take different end devices and change the ethernet module with wireless module if it is not already done. Assign IP addresses to end devices and test the network using PING.

1. Now use a simple hub and some end devices and assign IP addresses to them. Create a scenario in which more than one device transmits data at the same time in simulation mode. Observe the behaviour of frames and hub for collision and successful data transfer. Do same for wireless network. Analyse and note down the observed mechanism.